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TITLE: CARBON MATERIAL FOR NEGATIVE ELECTRODE OF LITHIUM SECONDARY BATTERY AND MANUFACTURE THEREOF

PUBN-DATE: February 2, 1996

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APPL-NO: JP06187926

APPL-DATE: July 19, 1994

INT-CL (IPC): H01 M 4/58; H01 M 4/02

ABSTRACT:

PURPOSE: To obtain the carbon powder as the material for negative electrode of a lithium secondary battery, which has a large discharging capacity, a high charging and discharging efficiency from the initial stage of the cycle and the excellent cycle characteristic.

CONSTITUTION: As the carbon material for negative electrode of a lithium secondary battery, graphitized carbon powder, which is adjusted by heating the carbon powder made of pitch in the existence of boron compound, is used, and $CTE \leq 3.0 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$, $d_{002} \leq 0.337 \text{ nm}$, $Lc \geq 40 \text{ nm}$, $R \geq 0.6$. Existence ratio of the boron in the graphitized carbon material is set at 0.01-15 weight %. At the time of manufacturing the carbon negative electrode material, boron compound at 20 weight % by boron conversion is mixed with the carbon powder made of pitch, and heated at 2500°C for 0.1-10 hours under the inert atmosphere. As the boron compound, at least one of boron, boron carbide, boron oxide and boric acid is used.

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